

Table 1.

Date of carrying out analysis	Place where analysis was carried out	Components being determined	Method of analysis	Result of CCA mg/l	
				before barrier	after barrier
09.12.99	Waste waters (Marinsky Park)	Floating petroleum products	IR	0.12	0.010
09.12.99	Nischenka River	Floating petroleum products	IR	0.34	0.035
09.12.99	Chura River	Floating petroleum products	IR	0.4	0.041
09.12.99	Tarakanovka River	Floating petroleum products	IR	0.78	0.050
11.01.00	Chura River	Floating petroleum products	IR	2.7	0.18
11.01.00	Waste waters (Butovo)	Floating petroleum products	IR	5.4	0.96
25.02.00	Waste waters OAO "Neftprodukty"	Phenols Petroleum products Benzopyrene Hydroquinone Phenolcarboxylic acid	chromat. IR chromat. chromat. chromat.	0.11 86.6 0.8 2.5 63	<0.01 0.05 <0.005 0.5 11

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Table 2.

No.	Name of compound	Weight fraction of component in samples, (mg/l)	
		Before purification	After 1st purification
1	Caproic acid	351	191
2	Tetrahydrothiophen	2.1	1.7
3	Isotiazole	10.9	5.0
4	2,3-Dimethyl - 1,4 - hexadiene	0.8	0.2
5	Isovaleric acid	5.1	1.4
6	Valeric acid	74.9	39.6
7	Enanthic acid	112	82
8	Caprylic acid + Benzoic acid	Σ 55.5	Σ 43.8
9	2-Ethylenehexanoic acid	5.2	0
10	β -Propylacrylic acid	2.9	0
11	Phenylacetic acid	16.3	9.6
12	Phenobarbital metabolite	3.2	0
13	1-Methyl phenyl cyclopropane	3.0	0
14	Cyclohexanacetic acid	3.2	2.6
15	Terephthalic anhydride	20.6	6.8
16	Phenol	49.3	14.1
17	Hydrocinnamic acid	14.1	0.3
18	Caprylic acid	9.2	7.8
19	2,3-Dimethylquinoxaline	5.3	1.5
20	N,N-Dimethylformamide	42.6	14.9
21	Cyclopropyl benzene	3.8	0.4
22	α -Phenylbenzyl alcohol	3.8	0
23	Cyclohexanol	294	203
24	Bi	0.043	0.028
25	Ni	0.96	0.36
26	Al	0.61	0.38
27	Na	450	380
28	Cr	2.4	0.55
29	Ca	42.4	33.0
30	Co	0.052	0.012
31	Re	2.4	0.46
32	Hg	0.00066	0.00042
33	Phosphate-ion	25.0	5.8
34	Nitrate-ion	0.11	<0.1
35	As	0.018	0.012
36	Sb	0.01	<0.005

Table 3

Components being determined	Initial water (Ramenskoe city water supply line)	Result of analysis (CCA), mg/l	
		After filter "Barrier" (U.S.A.)	After filter of carbonaceous mixture
Chromaticity, degree	28	23	4
Suspended substances	79	22	3
Turbidity, EMF	117	32	2
Iron, general	8.75	1.87	0.01
Ammonium nitrogen	0.52	0.18	0
Sulfides	0.008	0.004	0.002
Fluorides	1.03	0.95	0.87
Phosphates	0.14	0.12	0.08

Table 4

Components being determined	PDK	Well Orekho-Zuevo city		Well Rasskazovka village		Water line Ramenskoe city	
		Initial water, mg/l	After filter, mg/l	Initial water, mg/l	After filter, mg/l	Initial water, mg/l	After filter, mg/l
Hardness, general	6-8	4.68	4.00	5.6	5.4	5.58	5.28
Nitrates	45	1.1	0.8	21	15.8	2.5	2.0
Sulfates	500	1.5	0	56	44	30	20
Sulfides	0.003	0.001	0	0.004	0.001	0.008	0.002
Ammonium nitrogen	2.5	0	0	2.7	0.48	4.4	0.83
Chromaticity, degrees	20	8	1.5	10	1.8	28	4.0
Turbidity, EMF	2.6	0.6	0.02	1.25	0.06	117	2.0
Suspended substances	15	1.0	0.1	10	1.0	79	3.0
Oxidizability, perm.	5.0	1.2	0.5	3.2	1.0	3.4	2.0
Fluorides	1.5	0.2	0	0.29	0.02	1.03	0.87
Phosphates	3.5	0	0	0.80	0.31	0.14	0.08
Manganese	0.1	0.03	0.01	0	0	0.07	0.012
Iron, general	0,3	0.7	0	5.21	0.01	8.75	0.01
Iron org. (humates)	-	0	0	0.28	0	1.36	0.03
Copper	1.0	0	0	0.01	0	0.04	0
Aluminum	0.5	0	0	0.03	0	2.3	0.48
Lead	0.03	0	0	0	0	0.011	0.007
Zinc	5.0	0.17	0.05	0	0	0	0
Chlorine, resid. free.	0.3-0.5	0.06	0	0	0	3.00	0.03
Mineralization	1000	210	170	340	250	350	260
Chloride	350	2.9	2.7	17.5	16.6	6.8	6.5
Molybdenum	0.25	0	0	0	0	3.5	0.7